

Application/ Control No.: 10/624,002
 Examiner: GOLOBOY, James C

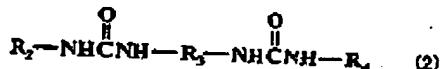
IN THE CLAIMS

Please amend the claims of the present application under the provisions of 37 C.F.R. §1.121(c), as indicated below:

1. (Currently amended): A nitrate free grease composition for avoiding an abnormal peeling of a rolling surface of a bearing, said nitrate free grease comprising:

- a base oil,
- a thickener, and
- an additive,

wherein the base oil contains 20% by weight or more of alkyldiphenyl ether oil and does not contain ester oil in the base oil, and has a kinetic viscosity of 20 to 150 mm²/s at 40 degree° C, and wherein the thickener is an aromatic diurea compound represented by the following formula (2)



where R2 and R4 are the same or different, and represent each an aromatic hydrocarbon group having 6 to 15 carbon atoms, and R3 represents an aromatic hydrocarbon group having 6 to 15 carbon atoms, and is contained in an amount of 5 to 30% by weight based on the total amount of the base oil and the thickener, and wherein the additive contains as an essential component 0.05 0.5 to 5 parts by weight of a sodium sebacate based on 100 parts by weight of the base oil and the thickener.

2. (Canceled)

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3. (Previously presented): The grease composition as claimed in claim 1, wherein the base oil contains synthesized hydrocarbon oil.

4-6 (Canceled)

7. (Previously presented): The grease composition as claimed in claim 1, wherein each of the R₂ and R₄ is C₆H₄(CH₃)₂, and the R₃ is -C₆H₄CH₂C₆H₄-.

8-10 (Canceled)

11. (Previously presented): The grease composition as claimed in claim 1, wherein the additive comprises 0.05 to 5 parts by weight of an antioxidant in addition to sodium sebacate based on 100 parts by weight of the base oil and the thickener.

12. (Previously presented): The grease composition as claimed in claim 11, wherein the antioxidant is selected from the group consisting of a sulfur-containing antioxidant, a phenol-based antioxidant and an amine-based antioxidant.

13. (Original): A grease composition sealed bearing, in which a sliding part of the bearing is sealed with the grease as claimed in claim 1.

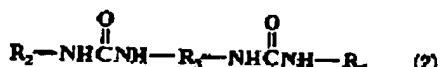
14. (Currently amended): A nitrate free grease composition for avoiding an abnormal peeling of a rolling surface of a bearing, said nitrate free grease consisting essentially of:

a base oil,
a thickener, and
an Additive,

wherein the base oil consists of alkylidiphenyl ether oil, and has a kinetic viscosity of 20 to 150 mm²/s at 40°C, and

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wherein the thickener is an aromatic diurea compound represented by the following formula (2)



where R2 and R4 are the same or different, and represent each an aromatic hydrocarbon group having 6 to 15 carbon atoms, and R3 represents an aromatic hydrocarbon group having 6 to 15 carbon atoms and is contained in an amount of 5% to 30% by weight based on the total amount of the base oil and the thickener,

wherein the additive contains as an essential component 0.05 0.5 to 5 parts by weight of a sodium sebacate-based on 100 parts by weight of the base oil and the thickener,

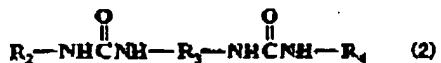
wherein the antioxidant is selected from the group consisting of a sulfur-containing antioxidant, a phenol-based antioxidant and an amine-based antioxidant.

15. (Currently amended): A nitrate free grease composition for avoiding an abnormal peeling of a rolling surface of a bearing, said nitrate free grease consisting essentially of:

- a base oil,
- a thickener, and
- an Additive,

wherein the base oil consists of 80% by weight of alkyldiphenyl ether oil and 20% by weight of synthesized hydrocarbon oil, and has a kinetic viscosity of 20 to 150 mm²/s at 40°C,

wherein the thickener is an aromatic diurea compound represented by the following formula (2)



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where R₂ and R₄ are the same or different, and represent each an aromatic hydrocarbon group having 6 to 15 carbon atoms, and R₃ represents an aromatic hydrocarbon group having 6 to 15 carbon atoms and is contained in an amount of 5% to 30% by weight based on the total amount of the base oil and the thickener,

wherein the additive contains as an essential component 0.05 0.5 to 5 parts by weight of a sodium sebacate based on 100 parts by weight of the base oil and the thickener,

wherein the antioxidant is selected from the group consisting of a sulfur-containing antioxidant, a phenol-based antioxidant and an amine-based antioxidant.